



Infrared wavelength dependence of leaky mode losses and steady state distribution in W-type glass optical fibers



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ARTICLE INFO

Keywords:

W-fiber
Steady state distribution
Power flow equation
Infrared wavelengths

ABSTRACT

Infrared wavelength dependence of leaky mode losses and steady state distribution (SSD) in W-type glass optical fibers (doubly clad fibers with three layers) is investigated in this paper for parametrically varied depths and widths of the fiber's intermediate optical layer. This enables a tailoring of configuration of the W-type fiber to suit an application at hand. We have shown that the proposed W-type fiber has better transmission characteristics at longer infrared wavelengths.

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